

Хранение Bin, BT, Big-Bag, GS, Silos

Технические характеристики

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Bin Series

STORAGE SILOS

Up to 245 l

The body of the bin is made from stainless steel and is supplied complete with frames of different heights for floor positioning. Modular construction allows customer to change bin capacity on site.

Bin series can be completed with:

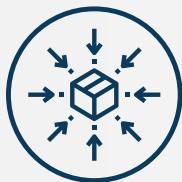
- castors for easy moving or feet for fixing to the ground
- Top lid with manual opening and grid for the bag unloading
- Two connections suitable for suction probes inserting in the lid.
- Suction box can be installed at the outlet on request.

A mobile, error-proof solution with a hardware key is also available, ensuring unique identification of the storage bin by the Winfactory 4.0 supervision software and preventing incorrect positioning when the storage bins are moved between loading and usage areas; ideal for customers in the medical or pharmaceutical sectors, or in environments where the production layout may increase the risk of human error.

This solution guarantees the correct material-to-storage bin association, even when storage bins are repositioned, and is suitable for setting the recipe either locally or through MES, enhancing traceability and process control (Quality Systems).



Stainless steel hoppers



Very compact footprint



Can eliminate human error with automatic lock

Material

Stainless steel construction for all the surfaces in contact with granules (frame realised in painted steel).

Supporting frame

Adjustable support feet or castors and legs available in two versions: long or short.

Options / accessories

Hinged lid or manual slide gate and suction box suitable for the installation at the bin outlet.

Flat lid, with connection flange for receiver, lid with opening for the insertion of one or two suction probes, additional grid to help the operator during bag emptying.

Extension for the supporting legs.

Minimum material level sensor.

On site extension kit.

Error-proof mobile version for Winfactory 4.0.



The bin can be placed on wheel or on feet, with different height according to the application



The material can be sucked from a bottom suction box or from one or two suction probes connections on the lid



The bin can be equipped with an automatic lock, connected to Winfactory 4.0 for error proof raw materials management

| | Volume (dm ³) | Legs Height (mm) | Diameter (mm) | Empty weight (kg) |
|---------------|---------------------------|------------------|---------------|-------------------|
| BIN40 | 40 | 750 | 630 | 35 |
| BIN100 | 100 | 960 | | 39 |
| BIN185 | 185 | 1280 | | 44 |

| | Volume (dm ³) | Legs Height (mm) | Diameter (mm) | Empty weight (kg) |
|------------------|---------------------------|------------------|---------------|-------------------|
| BIN-S 185 | 185 | 927 | 630 | 33 |
| BIN-S 245 | 245 | 1135 | | 37 |

BT Series



MODULAR SILOS

Up to 3,400 l

Space effective solution for storing granules up to 3,400 l, open to future expansions thanks to its practical scalability.

The filling of the hopper can be done manually for small capacity units thanks to the grid for the bag unloading or with vacuum receiver installed on the lid.



Modular solution



Maximum space utilisation



Adjustable in time



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Recycling



Compounds

| | |
|------------------------------|---|
| Construction material | Stainless steel or painted steel |
| Configurations | Basic bin with 400 litres capacity and floor stand Additional extension with 600 litres (each one) up to 3,400 litres in total |
| Foot print dimensions | 1.3 x 1.3 m |
| Options | Hinged lid, grid to help operator during bag discharging, suction box with one or two ways |



The storage silos can be completed with a grid for the bag unloading operation or with a hinged lid



The volume of the BT can be adjusted according to customer needs, including the right number of extensions



The material can be easily taken from the BT thanks to the integrated suction box

| | | | | | | |
|---------------------|------------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | |
| Capacity (l) | 400 | 1000 | 1600 | 2200 | 2800 | 3400 |
| Extensions | - | 1 | 2 | 3 | 4 | 5 |
| Height (mm) | 1,100 | 1,540 | 1,980 | 2,420 | 2,860 | 3,300 |

Big-Bag Station



UNLOADING STATION

up to 2,000 kg capacity

The practical unloading station by Piovan is suitable for big-bag of granules or flakes, with a capacity up to 2,000 kg; the frame has a footprint of 1 meter by 1 meter and a standard useful height to lodge the big-bag of 1 meter, extendible up to 2 meters.

It is available in two versions:

- Manual for forklift loading
- With electric hoist

It can be equipped with level sensors on the storage bin, extracting auger or electromechanical vibrators.

The designed assures the maximum protection for the operators.

On request, the collecting bin is available in stainless steel.



Modular frame



Deliverable for local easy assembly



Available for granules or flakes



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Compounds

Loading mode

With forklift as standard; electric hoist available as option

Construction material

Frame: painted mild steel

Collecting bin: mild steel or stainless steel

Options

Electric hoist to lift the big-bag, with stainless steel bottom hook and chain designed for high corrosion resistance and low wear.

Level sensor to detect the level of material inside the bin with related visual and acoustic alarm, extracting auger and bridge breaker



Protection for the operator hands to avoid the risk of crushing even in case of accidental downfall of the big-bag

GS Series



POSITIVE PRESSURE LOADING STATIONS

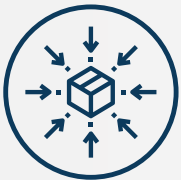
Up to 15,000 kg/h

Conveying system for high throughput and long distances, suitable for silos loading, composed by:

- Stainless steel storage collecting hopper
- Lid and grid suitable for big bag discharger
- Positive pressure pump
- Electrical board for the local management of the conveying system.

In case of manual filling, a practical grid to avoid lumps of material is available on request.

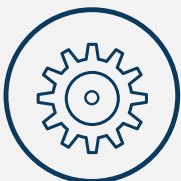
In case of multiple destinations, the management of diverting valves can be integrated in the control.



Compact and stand-alone unit



Mobile solution



Turn-key



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Recycling



Compounds

| | |
|--|---|
| Feeding capacity | 2,000 up to 15,000 kg/h |
| Blower type | Side channel (for GS2 and GS3) or lobe blower |
| Possible configurations/options | Possibility of integrated collecting bin and rotary valve for GS2 and GS3, sound proof cabinet for lobe blowers, process cooler, grid for manual bags filling |



The positive pressure pump can be integrated with a collecting bin and a rotary valve to properly feed the injector



To reach high throughput, lobe blowers are used, including complete sound-proof cabinet



For sensitive materials, a cooler is available to control the conveying air temperature.

| | Load power (kW) | Max throughput (kg/h)* | Max distance (m) | Max height (m) | Pipe diameter (mm) | Blower type |
|------------|--------------------|---------------------------|---------------------|-------------------|-----------------------|------------------------|
| GS2 | 11 | 2,000 | 30 | 20 | 88.9 | Side channel blower |
| GS3 | 20 | 6,500 | 30 | 20 | 101.6 | |
| GS4 | 18,5 | 6,000 | 50 | 30 | 101.6 | Lobe blower |
| | 22 | 8,000 | 50 | 30 | 101.6 | |
| GS6 | 37 | 10,000 | 50 | 30 | 114.3 | |
| GS8 | 45 | 15,000 | 50 | 30 | 139.7 | |

* reference values for regular plastic chips with bulk density of 0,55 kg/dm³ and according to maximum distance and height above mentioned.

Textile silos

TEXTILE SILOS

Up to 51 tons

Reinforced high resistant textile silos are suitable with materials with PSA up to 0.6 kg/dm^3 as standard. Higher resistances or special version for food applications are available on request.

The solution is characterised by anti-static, anti condensation and anti dust behaviours.

The silo roof section is made by a filtering textile for a practical and safe evacuation of air during the pressure loading.

The silos can be completed with a wide range of accessories: from different type of level sensors or load cells to the interface of material handling system.



Cost effective solution for indoor storage



Minimum costs for transport and erection



High flexibility in the system configuration



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Recycling



Compounds

| | |
|--------------------------------|---|
| Material to be stored | Pellets, granules, powder, regrind, flakes, food in bulk form |
| Capacity | From 3.4 m ³ up to 85.6 m ³ |
| Fabric characteristics | Polyester reinforced with the following characteristics: stainless steel reinforcing yarn, antistatic, permeable, uncoated, designed for heavy duty, dust tight |
| Options and accessories | Level sensors, suction box or rotary valve at the outlet, discharge agitator for material with poor flowability, load cells for continuous control of silo weight |

| Volume (m ³) | Max capacity (t) |
|--------------------------|------------------|
| 3.36 | 2.02 |
| 5.53 | 3.33 |
| 8.13 | 4.88 |
| 10.78 | 6.47 |
| 12.98 | 7.80 |
| 17.54 | 10.53 |
| 20.99 | 12.60 |

| Volume (m ³) | Max capacity (T) |
|--------------------------|------------------|
| 25.05 | 15.04 |
| 28.36 | 17.02 |
| 33.82 | 20.30 |
| 42.79 | 25.68 |
| 52.77 | 31.67 |
| 67.09 | 40.26 |
| 85.56 | 51.34 |

Silos



STORAGE SILOS

Up to 500 tons

Large diameter silos offer with great attention to functional and aesthetics for out door installation.

Suitable for granules, flakes or powders, Piovan silos have specific geometries and devices for according to the materials to store, such as:

- Outlet air filters
- Extraction systems for high friction polymers
- Measurement solutions like load cells or continuous level sensor (radar or plumb bob type)
- Protection systems for potentially explosive atmospheres.

The silos are compatible with a wide range of loading methods like truck pumps, sea containers with bags, high pressure blowers for dense or semi-dense phase conveying systems.

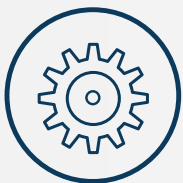
On request, ground load calculation or specific technical documentation is available.



Tailor made solutions for different applications and materials



Fully integrated storage solutions and material loading and distribution system



Turn-key solutions including delivery and installation



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Recycling



Compounds

| | |
|-------------------------|--|
| Construction | Monolithic or bolted |
| Material | Stainless steel or aluminium alloy |
| Maximum capacity | 170 ton for monolithic silos 500 ton for bolted silos |
| Shipping mode | Monolithic silo: pre assembled and shipped with flat rack Bolted silo: shipped dismantled inside a container |
| Options | continuous level sensor (radar or plumb bob type) or load cells, maximum and minimum level sensors Ladder and platform for safe access to the silo roof Loading system with positive pressure unit, manual or automatic diverting valves, tagging system and connection for directly feeding from tanker truck. Suction box and interface with the vacuum feeding distribution system. |



Monolithic silo are shipped with flat rack and they required minimum assembly operations on site



For a reliable control of the quantity of material inside the silos, it is possible to place the silo on load cells



According to customer's requests, to the maximum capacity and to shipment costs, it is possible to choose between monolithic and bolted silo

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